THERMOCHIMICA ACTA, VOLUME 165 (1990)

SUBJECT INDEX

Acetone,
Thermochemical investigations of associated solutions. 12. Mole fraction versus volume fraction based association constants for predicting excess molar enthalpies of acetone–bromoform–alkane mixtures 113

Activation energy,
Error in determining activation energy caused by the wrong choice of process model 11

Alkanaminium iodides,
Thermal properties, thermolysis and thermochemistry of alkanaminium iodides 31

Alkanes,
Thermochemical investigations of associated solutions. 12. Mole fraction versus volume fraction based association constants for predicting excess molar enthalpies of acetone–bromoform–alkane mixtures 113

Associated solutions,
Thermochemical investigations of associated solutions. 12. Mole fraction versus volume fraction based association constants for predicting excess molar enthalpies of acetone–bromoform–alkane mixtures 113

Association constants,
Thermochemical investigations of associated solutions. 12. Mole fraction versus volume fraction based association constants for predicting excess molar enthalpies of acetone–bromoform–alkane mixtures 113

Autoxidation,
The effects of flavonoids on the thermal autoxidation of palm oil and other vegetable oils determined by differential scanning calorimetry 129

Barium compounds,
Phase formation and thermal stability of $YBa_2Cu_3O_{7-x}$ from coprecipitated powders 261

Bromoform,
Thermochemical investigations of associated solutions. 12. Mole fraction versus volume fraction based association constants for predicting excess molar enthalpies of acetone–bromoform–alkane mixtures 113

Carbon monoxide,
The reduction of V_2O_5. Part I. Reduction by carbon monoxide 73

Catalysis,
Thermometric determination of Cu^{II} based on its catalytic effect on the oxidation of hydroxylamine by dissolved oxygen 255

Catalysts,
Characterisation of heterogeneous catalysts by modified flow microcalorimetry 171

Ceramics,
Thermal expansion of hydroxyapatite-β-tricalcium phosphate ceramics 57

Cholesterol,
Heat of solution of cholesterol and its interactions with different solvents: a calorimetric study 49

Chromium,
Kinetics of the reaction in Cu–Fe and Cu–Cr mixed oxides 147

Cobalt formate,
Reactions of cobalt formate on supports 139

Cobalt(II) complexes,
The preparation, characterisation and thermal analysis studies on complexes of cobalt(II), nickel(II), copper(II) and zinc(II) with phenanthridine 201

Cobalt(II) malonato complex,
Kinetics of isothermal decomposition of γ-irradiated and unirradiated cobalt(II) malonato complex 23

Copper,
Kinetics of the reaction in Cu–Fe and Cu–Cr mixed oxides 147

Copper compounds,
Phase formation and thermal stability of $YBa_2Cu_3O_{7-x}$ from coprecipitated powders 261

Copper(II) complexes,
The preparation, characterisation and thermal analysis studies on complexes of cobalt(II), nickel(II), copper (II) and zinc(II) with phenanthridine 201

Copper(II) content,
Thermometric determination of Cu^{II} based on its catalytic effect on the oxidation of hydroxylamine by dissolved oxygen 255

Curing,
Synthesis and curing study of a new phenolphthalein–formaldehyde resin 153

Cyclourea nitramines,
Mechanism of the initial stage of the thermal decomposition of some cyclourea nitramines with *N*-trinitroethyl groups 235

Decomposition,
Kinetics of isothermal decomposition of γ-irradiated and unirradiated cobalt(II) malonato complex 23
Kinetics of thermal dehydration and decomposition of Zr^{IV} and UO_2^{II} complexes of 2′4′-dihydroxychalkone 163
Kinetics of weight loss by thermal decomposition of different lignocellulosic materials. Relation between the results obtained from isothermal and dynamic experiments 103
Mechanism of the initial stage of the thermal decomposition of some cyclourea nitramines with *N*-trinitroethyl groups 235
The thermal decomposition of dolomite 281
Thermal decomposition of substituted tetraphenylborates 1
Thermal decomposition of tetrazole. Part II. Kinetic analysis 17
Dehydration,
Kinetics of thermal dehydration and decomposition of Zr^{IV} and UO_2^{II} complexes of 2′,4′-dihydroxychalkone 163
Dihydroxybenzylidene-4-aminoantipyrine,
Phase change and thermochromism of crystalline 2,4-dihydroxybenzylidene-4-aminoantipyrine and its UO_2(VI) complex in the solid state 183
Dihydroxychalkone complexes,
Kinetics of thermal dehydration and decomposition of Zr^{IV} and UO_2^{II} complexes of 2′,4′-dihydroxychalkone 163
Disproportionation,
DSC analysis of disproportionation products of SnO 301
Dolomite,
The thermal decomposition of dolomite 281

Excess enthalpy,
Thermochemical investigations of associated solutions. 12. Mole fraction versus volume fraction based association constants for predicting excess molar enthalpies of acetone–bromoform–alkane mixtures 113
Expansion,
Thermal expansion of hydroxyapatite-β-tricalcium phosphate ceramics 57

FeV_2O_4,
The reaction of the spinel FeV_2O_4 with Na_2CO_3 in an inert atmosphere 193
Flavonoids,
The effects of flavonoids on the thermal autoxidation of palm oil and other vegetable oils determined by differential scanning calorimetery 129
Flow microcalorimetry,
Characterisation of heterogeneous catalysts by modified flow microcalorimetry 171
Formaldehyde,
Synthesis and curing study of a new phenolphthalein–formaldehyde resin 153
Formation,
Gibbs energies of formation of rare earth MPt_5 compounds 223

Growth conditions,
Growth conditions of organic non-linear optical crystals 297

Hematite,
The formation of nickel ferrite from hematite, magnetite and spinel ironsand 207
Hydrogen,
The reduction of V_2O_5. Part II. Reduction by hydrogen 85
Hydroxyapatite-β-tricalcium phosphate,
Thermal expansion of hydroxyapatite-β-tricalcium phosphate ceramics 57
Hydroxylamine,
Thermometric determination of Cu^{II} based on its catalytic effect on the oxidation of hydroxylamine by dissolved oxygen 255

Interactions,
Heat of solution of cholesterol and its interactions with different solvents: a calorimetric study 49
Inverse kinetic problem,
An approach to the solution of the inverse kinetic problem in the case of complex processes. Part 1. Methods employing a series of thermoanalytical curves 273
Iron,
Kinetics of the reaction in Cu–Fe and Cu–Cr mixed oxides 147
Ironsand,
The formation of nickel ferrite from hematite, magnetite and spinel ironsand 207
Irradiation,
Kinetics of isothermal decomposition of γ-irradiated and unirradiated cobalt(II) malonato complex 23

Kinetic analysis,
Thermal decomposition of tetrazole. Part II. Kinetic analysis 17

Lignocellulosic materials,
Kinetics of weight loss by thermal decomposition of different lignocellulosic materials. Relation between the results obtained from isothermal and dynamic experiments 103

Linear dilatometry,
Study of structural relaxations in polycaproamide by the linear dilatometry method 249

Magnetite,
The formation of nickel ferrite from hematite, magnetite and spinel ironsand 207
Mixed oxides,
Kinetics of the reaction in Cu–Fe and Cu–Cr mixed oxides 147

Na_2CO_3,
The reaction of the spinel FeV_2O_4 with Na_2CO_3 in an inert atmosphere 193
Nickel ferrite,
The formation of nickel ferrite from hematite, magnetite and spinel ironsand 207
Nickel(II) complexes,
The preparation, characterisation and thermal analysis studies on complexes of cobalt(II), nickel(II), copper(II) and zinc(II) with phenanthridine 201

Optical crystals,
Growth conditions of organic non-linear optical crystals 297
Oxidation,
Thermometric determination of Cu^{II} based on its catalytic effect on the oxidation of hydroxylamine by dissolved oxygen 225

Palm oil,
The effects of flavonoids on the thermal autoxidation of palm oil and other vegetable oils determined by differential scanning calorimetry 129
Phase equilibria,
Redetermination of the phase equilibria in the system Tl_2Te–Ag_2Te 93
Phase formation,
Phase formation and thermal stability of $YBa_2Cu_3O_{7-x}$ from coprecipitated powders 261
Phenanthridine,
The preparation, characterisation and thermal analysis studies on complexes of cobalt(II), nickel(II), copper(II) and zinc(II) with phenanthridine 201
Phenolphthalein,
Synthesis and curing study of a new phenolphthalein–formaldehyde resin 153
Polycaproamide,
Study of structural relaxations in polycaproamide by the linear dilatometry method 249
Process model,
Error in determining activation energy caused by the wrong choice of process model 11

Rare earth compounds,
Gibbs energies of formation of rare earth MPt_5 compounds 223
Reduction,
The reduction of V_2O_5. Part I. Reduction by carbon monoxide 73

SnO,
DSC analysis of disproportionation products of SnO 301
Solution,
Heat of solution of cholesterol and its interactions with different solvents: a calorimetric study 49
Spinels,
The formation of nickel ferrite from hematite, magnetite and spinel ironsand 207
The reaction of the spinel FeV_2O_4 with Na_2CO_3 in an inert atmosphere 193
Structural relaxations,
Study of structural relaxations in polycaproamide by the linear dilatometry method 249

Tetraphenylborates,
Thermal decomposition of substituted tetraphenylborates 1
Tetrazole,
Thermal decomposition of tetrazole. Part II. Kinetic analysis 17
Thermoanalytical curves,
An approach to the solution of the inverse kinetic problem in the case of complex processes. Part 1. Methods employing a series of thermoanalytical curves 273
Thermochromism,
Phase change and thermochromism of crystalline 2,4-dihydroxybenzylidene-4-aminoantipyrine and its UO_2(VI) complex in the solid state 183
Tl_2Te–Ag_2Te system,
Redetermination of the phase equilibria in the system Tl_2Te–Ag_2Te 93

Vanadium oxide,
The reduction of V_2O_5. Part I. Reduction by carbon monoxide 73
The reduction of V_2O_5. Part II. Reduction by hydrogen 85
Vegetable oils,
The effects of flavonoids on the thermal au-

toxidation of palm oil and other vegetable oils determined by differential scanning calorimetry 129

Weight loss,
Kinetics of weight loss by thermal decomposition of different lignocellulosic materials. Relation between the results obtained from isothermal and dynamic experiments 103

Yttrium compounds,
Phase formation and thermal stability of $YBa_2Cu_3O_{7-x}$ from coprecipitated powders 261

Zinc(II) complexes,
The preparation, characterisation and thermal analysis studies on complexes of cobalt(II), nickel(II), copper(II) and zinc(II) with phenanthridine 201